

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v220)**

1. Solve the equation.

$$(5x - 6)(4x + 3) = 0$$

2. Expand the following expression into standard form.

$$(5x + 7)(3x + 4)$$

3. Expand the following expression into standard form.

$$(5x + 9)(5x - 9)$$

4. Expand the following expression into standard form.

$$(7x - 5)^2$$

5. Factor the expression.

$$25x^2 - 9$$

6. Solve the equation with factoring by grouping.

$$10x^2 + 8x - 15x - 12 = 0$$

7. Solve the equation.

$$5x^2 + 4x - 10 = 2x^2 + 5x + 4$$

8. Factor the expression.

$$x^2 - 2x - 63$$